MODIS TECHNICAL TEAM MEETING

November 7, 1996

The MODIS Technical Team Meeting was chaired by Vince Salomonson. Present were David Herring, Eric Vermote, Barbara Conboy, Steve Platnick, Wayne Esaias, Richard Weber, Ray Taylor, Bruce Guenther, and Robert Murphy.

1.0 SCHEDULE OF EVENTS

October 15, 1993	**Quarterly Reports due to Barbara Conboy**
December 18	Quarterly Management Review teleconference
January 6 - 7, 1997	Pre-Environmental Review at Santa Barbara
January 15, 1997	Semi-Annual Reports due to Barbara Conboy
February 25 - 27	EOS Interdisciplinary Working Group (IWG) in San Diego

2.0 MINUTES OF THE MEETING

2.1 MODIS Project Reports

Weber reported that all of the MODIS PFM (Protoflight Model) electronics will be assembled by this weekend, and ready for integration.

Weber reported that the first spaceview door has a delamination problem. SBRS and GSFC are currently working to identify the proper course of action.

2.1.1 Study Chartered on Second EOS Series

Taylor announced that NASA Code 170 has chartered a study on how best to design and integrate the sensors for the second series of EOS platforms. Ken Ford will take the lead on that study. Salomonson suggested that all EOS project scientists should follow the study closely.

Taylor told the team that a World Wide Web site has been constructed to enable people to follow plans for the EOS AM-2 and PM-2 platforms. The URL (Uniform Resource Locator) for that site is http://mtpe/eos-am2/sss/summary.htm. He said the challenge is to make EOS AM-2 an under $250 million mission.

Taylor stated that there is also a Payload Panel study forthcoming on the second series of EOS platforms, headed by Berrien Moore. Chris Scolese will co-chair that panel. The is study is expected to result in a white paper that will be published on the Web in January 1997 for open comment.

2.2 MCST Reports

Guenther announced that MCST has published its Version 2 beta file format on the Web for anyone to review. Anyone interested may find this information on MCST's Web page, at http://ltpwww.gsfc.nasa.gov/MODIS/MCST/Home.html. Guenther said an e-mail was sent out asking for agreement or consensus from the Science Team on whether they would like the sub 1-km bands to be aggregated in a file or a data set. Or, these data could be broken out into 250-m, 500-m, and 1-km bands in different subsets. Guenther hopes to publish the final format in the next 4 - 5 weeks.

Platnick stated that the Atmosphere Group is in favor of putting the aggregate product into Level 1B at the highest resolution possible. Vermote said he is in favor of aggregating 1-km data.

Guenther showed a viewgraph on the longwave infrared (LWIR) combined scan and fold mirror throughput that shows that reflectance drops off with greater angle of incidence (see Attachment 1). He also pointed out that there is more variability at larger angles of incidence for different bands.

2.3 MODLAND Status Update

Vermote reported that he attended several meetings on EOSDIS replanning. His understanding is that we will not get full EOSDIS processing capability at launch. He is evaluating ways to best use MODLAND's allocation of megaflops, including possible software switches. He pointed out that the data products will be less accurate by limiting the processing capacity. Vermote stated that MODLAND is not looking at subsampling; their approach is to simply the algorithm.

Murphy feels that it is not clear that there will be a processing limitation at launch. He said he finds it awkward that the instruments are being asked for downsizing scenarios when the ESDIS has not yet described sufficiently the magnitude of the problem. Murphy stated that it sounds like we will only need to downsize by about 10 percent at launch, but the teams shouldn't suggest solutions until the problem is well defined.

2.4 Direct Broadcast

Murphy announced that he has started a weekly informal brown bag lunch meeting of MODIS group leaders to discuss issues of concern. He said that today's issue was direct broadcast. He stated that Ed Masuoka and he are very cautious about doing direct broadcast. There is a question of resources that must be addressed.

Esaias stated that he would like to see an SBIR (Small Business Innovative Research) or AO (Announcement of Opportunity) released for someone else to work on this issue. He feels that it has zero priority for teams members, relatively, because they have so many other, more important problems to solve.

3.0 ATTACHMENTS

NOTE: All attachments referenced below are maintained in MODARCH and are available for distribution upon request. Please contact David Herring, MAST Technical Manager, at (301) 286-9515, Code 920, NASA/Goddard Space Flight Center, Greenbelt, MD 20771 if you desire copies of any attachments.

1. "LWIR Combined Scan and Fold Mirror Throughput Computed Two Ways," by Bruce Guenther